(ii) introducing two expression vectors into said incubating embryogenic callus to produce transformed embryogenic callus, wherein one of said expression vectors comprises a selectable marker gene, and wherein the second of said expression vectors comprises a second foreign gene;

wherein the vector or vectors of (c)(i) and (c)(ii) are introduced into the incubating embryogenic callus by co-incubating the callus with *Agrobacterium tumefaciens* containing the vector or vectors or by microprojectile-mediated delivery of the vector into the callus;

- (d) culturing said transformed embryogenic callus on selection medium;
- culturing said transformed embryogenic callus containing embryos on developmental medium containing an osmotic pressure increasing agent;
- (f) culturing said transgenic embryos on maturation medium; and
- (g) recovering transgenic plants from said transgenic embryos.
- 39. (Five Times Amended) A method for producing transgenic poinsettia plants, comprising:
 - incubating poinsettia plant tissue explants that produce reddish epidermal callus in auxin- and cytokinin-containing callus induction medium;
 - (b) subculturing embryogenic callus produced on said callus induction medium to liquid NH₄⁺ and/or NO₃⁻ containing embryo induction-medium;
 - (c) filtering the culture and culturing the filtrate in fresh liquid embryo induction medium;
 - (d) filtering the culture and culturing the filtrate on solid embryo induction medium;
 - (e) subculturing embryos produced on said embryo induction medium to maturation medium;
 - (f) culturing said embryos on callus induction medium;
 - (g) subculturing epidermal callus produced on said callus induction medium to embryo induction medium to form embryogenic callus;

(h)

(i) introducing an expression vector into said embryogenic callus to produce transformed embryogenic callus, wherein said expression vector comprises a selectable marker gene and a second foreign gene, or

(ii) introducing two expression vectors into said embryogenic callus to produce transformed embryogenic callus, wherein one of said expression vectors comprises a selectable marker gene, and wherein the second of said expression vectors comprises a second foreign gene;

wherein the vector or vectors of (c)(i) and (c)(ii) are introduced into the incubating embryogenic callus by co-incubating the callus with *Agrobacterium tumefaciens* containing the vector or vectors or by microprojectile-mediated delivery of the vector into the callus;

- (i) culturing said transformed embryogenic callus on selection medium;
- culturing said transformed embryogenic callus containing embryos on developmental medium containing an osmotic pressure increasing agent;
- (k) culturing said transformed embryos on maturation medium; and
- (I) recovering transgenic plants from said transgenic embryos.
- 102. (Three Times Amended) A method for producing transgenic poinsettia plants comprising the steps of:
 - incubating poinsettia plant tissue explants that produce epidermal callus on auxinand cytokinin-containing callus induction medium;
 - (b) subculturing embryogenic callus to embryo-induction-medium-comprising casein hydrolysate and NH₄⁺ and/or NO₃ to form embryogenic callus containing embryos;

(c)

- (i) introducing an expression vector into said incubating embryogenic callus to produce transformed embryogenic callus, wherein said expression vector comprises a selectable marker gene and a second foreign gene, or
- (ii) introducing two expression vectors into said incubating embryogenic callus to produce transformed embryogenic callus, wherein one of said expression vectors comprises a selectable marker gene, and wherein the second of said expression vectors comprises a second foreign gene;

wherein the vector or vectors of (c)(i) and (c)(ii) are introduced into the incubating embryogenic callus by co-incubating the callus with Agrobacterium tumefaciens con-

- taining the vector or vectors or by microprojectile-mediated delivery of the vector into the callus;
- (d) culturing said transformed embryogenic callus on selection medium;
- (e) culturing said embryogenic callus containing embryos on developmental medium containing an osmotic pressure increasing agent;
- (f) culturing said transgenic embryos on maturation medium; and
- (g) recovering transgenic plants from said transgenic embryos.

Thrice

103.

- (Twice Amended) A method for producing transgenic poinsettia plants comprising the steps of:
- (a) incubating poinsettia plant tissue explants that produce epidermal callus on auxinand cytokinin-containing callus induction medium;
- (b) subculturing embryogenic callus produced on said callus induction medium to liquid embryo induction medium comprising casein hydrolysate and NH₄⁺ and/or NO₃⁻;
- (c) filtering the culture and culturing the filtrate in fresh liquid embryo induction medium;
- (d) filtering the culture and culturing the filtrate on solid embryo induction medium;
- (e) subculturing embryos produced on said embryo induction medium to maturation medium:
- -(f)-----culturing-said-embryos-on-callus-induction-medium;-----
- (g) subculturing embryogenic callus produced on said callus induction medium to embryo induction medium to form embryogenic callus containing embryos;

(h)

- (i) introducing an expression vector into said incubating embryogenic callus to produce transformed embryogenic callus, wherein said expression vector comprises a selectable marker gene and a second foreign gene, or
- (ii) introducing two expression vectors into said incubating embryogenic callus to produce transformed embryogenic callus, wherein one of said expression vectors comprises a selectable marker gene, and wherein the second of said expression vectors comprises a second foreign gene;

wherein the vector or vectors of (h)(i) and (h)(ii) are introduced into the incubating embryogenic callus by co-incubating the callus with *Agrobacterium tumefaciens* con-

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